

Table 4-01
Soil Remediation Design Summary
Andrew Willgoos Turbine Laboratory
East Hartford Connecticut

RTA ID	RTA Description	Sub RTA	COC	Media Impacted	Proposed Remedy	Remediation Area (sqft)	Excavation Depth (ft)	Total Volume of Soil (cft)	Total Volume of Soil (cyd)
Central Study Area									
CW-RTA02	Clarke Compressor Area	A	PCBs, ETPH	Soil/Concrete	Excavation	214	12	3210	119
		B	PCBs	Soil	Excavation	437	8	4370	162
		C	PCBs	Soil	Excavation	312	14	5460	202
CW-RTA05	X-206 Test Stand	ELUR	PCBs, ETPH	Soil	Cap/ELUR	--	--	--	--
CW-RTA08	X-217 Test Stand	--	PCBs	Soil	Excavation	352	3	1109	41
CW-RTA11	X-208 Test Stand	X-208	PCBs, PAHs	Soil/Concrete	Excavation & Cap/ELUR	70	1	74	3
	X-209 Test Stand	X-209	PCBs, PAHs	Soil/Concrete	Excavation & Cap/ELUR	150	2	315	12
CW-RTA12	X-207 Test Stand	--	PCBs, ETPH, VOCs	Soil	Excavation & Cap/ELUR	226	2	475	18
CW-RTA14	X-204 Test Stands	A	PCBs, ETPH, Hg	Soil	Excavation	94	2	197	7
		ELUR	PCBs, ETPH, Hg	Soil	Cap/ELUR	4230	--	--	--
CW-RTA20	X-203 Test Stands	ELUR	PCBs, ETPH, Hg	--	Cap/ELUR	4630	--	--	--
CW-RTA21	X-205 Test Stand	--	PCBs (SPLP), ETPH, Pb	--	Excavation & Cap/ELUR	?	6	?	?
CW-RTA22	X-211 Test Stand	ELUR	PCBs	--	Cap/ELUR	--	--	--	--
CW-RTA39	Surfaces west of Main Laboratory	A	PCBs	Soil	Excavation	1100	1	1155	43
		E		Soil/Asphalt	Excavation	950	1	998	37
CW-RTA40	Surfaces south of Main Laboratory	F	PCBs	Soil	Excavation	239	1.5	376	14
		H		Soil	Excavation	135	1	142	5
CW-RTA41	Surfaces east of Main Laboratory	A	PCBs	Soil	Excavation	350	1	368	14
Subtotal	Central Study Area								676
North Study Area									
NN-RTA01-03	Barrel Storage Area west & north swales	A	PCBs	Soil	Excavation	110	1	116	4
		B	PCBs	Soil	Excavation	639	8	6390	237
		C	PCBs	Soil	Excavation	180	10	2250	83
		D	PCBs	Soil	Excavation	110	1	116	4
		E	PCBs	Soil	Excavation	184	14	3220	119
		F	PCBs	Soil	Excavation	185	3	583	22
		G	PCBs	Soil	Excavation	1900	2	3990	148
		H	PCBs	Soil	Excavation	804	4	3377	125
		I	PCBs	Soil	Excavation	111	14	1943	72
		J	PCBs	Soil	Excavation	330	1	347	13
		K	PCBs	Soil	Excavation	683	3	2151	80
		L	PCBs	Soil	Excavation	1846	1	1938	72
		M	PCBs	Soil	Excavation	291	1	306	11
		ELUR	PCBs	Soil	Cap/ELUR	2740	--	--	--
NN-RTA04-08	Raised Barrel Storage Area east swale	A	PCBs, ETPH	Soil	Excavation	1318	1.5	2076	77
		B	PCBs	Soil	Excavation	298	4	1252	46
		C	PCBs	Soil	Excavation	287	6	2153	80
		D	PCBs	Soil	Excavation	443	12	6645	246
		E	PCBs	Soil	Excavation	345	4	1449	54
		F	PCBs	Soil	Excavation	663	1.5	1044	39
		G	PCBs	Soil	Excavation	403	8	4030	149
		H	PCBs	Soil	Excavation	110	14	1925	71
		I	PCBs	Soil	Excavation	149	4	626	23
		J	PCBs	Soil	Excavation	390	4	1638	61
		K	PCBs	Soil	Excavation	761	8	7610	282
		L	PCBs	Soil	Excavation	1643	2	3450	128
		M	PCBs	Soil	Excavation	173	4	727	27
		ELUR	PCBs	Soil	Cap/ELUR	3700	--	--	--
NN-RTA10-12	Hazardous Waste Storage Area	A	PCBs, VOCs	Soil	Excavation	232	2	487	18
		B	PCBs	Soil	Excavation	300	6	2250	83
		C	PCBs	Soil	Excavation	234	4	983	36
		D	PCBs	Soil	Excavation	113	4	475	18
		E	PCBs	Soil	Excavation	1744	2	3662	136
		F	PCBs	Soil	Excavation	250	10	3125	116
		ELUR #1	PCBs	Soil	Cap/ELUR #1	810	--	--	--
		ELUR #2	PCBs	Soil	Cap/ELUR #2	400	--	--	--
		ELUR #3	PCBs	Soil	Cap/ELUR #3	400	--	--	--
NN-RTA13-18	Gas Compressor House	A	PCBs	Soil	Excavation	30	4	126	5
		B	PCBs	Soil	Excavation	60	6	450	17
		C	PCBs	Soil	Excavation	220	6	1650	61
		D	PCBs	Soil	Excavation	510	4	2142	79
		E	PCBs	Soil	Excavation	282	8	2820	104
		F	PCBs	Soil	Excavation	140	4	588	22
		G	PCBs	Soil	Excavation	280	4	1176	44
		H	PCBs	Soil	Excavation	60	3	189	7
		I	PCBs	Soil	Excavation	80	2	168	6
		J	PCBs	Soil	Excavation	70	4	294	11
		ELUR	PCBs	Soil	Cap/ELUR	1600	--	--	--
Subtotal	North Study Area								3,035
Northeast Study Area									
NEB-RTA01 & 11	Former Physical Chemistry Lab	A	PCBs, PAHs	Soil	Excavation	240	2	504	19
		B	PCBs	Soil	Excavation	2350	1.5	3701	137
		C	PCBs	Soil	Excavation	740	4	3108	115
		D	PCBs	Soil	Excavation	240	1	252	9
		E	PCBs	Soil	Excavation	570	2	1197	44
		F	PCBs	Soil	Excavation	630	3	1985	74
		G	PCBs	Soil	Excavation	170	1.5	268	10
		H	PCBs	Soil	Excavation	580	1.5	914	34
		ELUR	PCBs	Soil	Cap/ELUR	750	--	--	--
NEB-RTA02	West of Fuel Laboratory	A	PCBs	Soil	Excavation	80	2	168	6
		B	PCBs	Soil	Excavation	780	4	3276	121
		C	PCBs	Soil	Excavation	40	4	168	6
		D	PCBs	Soil	Excavation	220	4	924	34
		ELUR	PCBs	Soil	Cap/ELUR	1170	--	--	--
NEB-RTA03	Substation 58	A	PCBs	Soil	Excavation	102	2.5	268	10
		B	PCBs	Soil	Excavation	400	1.5	630	23
		C	PCBs	Soil	Excavation	177	2	372	14
		ELUR	PCBs	Soil	Cap/ELUR	102	--	--	--
NEB-RTA04	Clarke Compressor Air Discharge	--	PCBs	Soil	Excavation	135	2	284	11
		ELUR	PCBs	Soil	Cap/ELUR	950	--	--	--
Subtotals	Northeast Study Area								667

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Northwest Study Area									
NWA-RTA 1, 12-15 & 17	Outdoor Equipment Storage Area	A	PCBs	Soil	Excavation	140	4	588	22
		B	PCBs	Soil	Excavation	3900	1.5	6143	228
		C	PCBs	Soil	Excavation	80	4	336	12
		D	PCBs	Soil	Excavation	1350	2	2835	105
		E	PCBs	Soil	Excavation	1440	1.5	2268	84
		F	PCBs	Soil	Excavation	170	4	714	26
		G	PCBs	Soil	Excavation	1080	1.5	1701	63
		H	PCBs	Soil	Excavation	580	2	1218	45
		I	PCBs	Soil	Excavation	160	4	672	25
		J	PCBs	Soil	Excavation	1630	2	3423	127
		ELUR (1)	PCBs	Soil	Cap/ELUR	720	--	--	--
		ELUR (2)	PCBs	Soil	Cap/ELUR	170	--	--	--
		ELUR (3)	PCBs	Soil	Cap/ELUR	160	--	--	--
NWA-RTA02	X234 & X235 Equipment Room	A	PCBs	Soil & Concrete	Excavation	112	2	235	9
NWA-RTA03	X232 & X233 Control Room	--	PCBs	Soil	Excavation	342	4	1436	53
		ELUR	PCBs	Soil	Cap/ELUR	211	--	--	--
NWA-RTA04	Lateral Exhaust Discharge Area	A	PCBs	Soil	Excavation	310	2	651	24
NWA-RTA05 & 06	X230 & X231 Test Stand Area	A	PCBs	Soil	Excavation	583	3	1836	68
		B	PCBs	Soil	Excavation	140	1.5	221	8
		C	PCBs	Soil	Excavation	200	1.5	315	12
		D	PCBs	Soil	Excavation	50	2	105	4
		E	PCBs	Soil	Excavation	100	1	105	4
		F	PCBs	Soil	Excavation	113	1	119	4
		G	PCBs	Soil	Excavation	122	3	384	14
		H	PCBs	Soil	Excavation	1038	4	4360	161
		I	PCBs	Soil	Excavation	131	1.5	206	8
		J	PCBs	Soil	Excavation	48	4	202	7
		ELUR	PCBs	Soil	Cap/ELUR	975	--	--	--
NWB-RTA02 & 07	D.E. Laboratory	A	PCBs	Soil	Excavation	1400	0.5	735	27
		B	PCBs	Soil	Excavation	55	1.5	87	3
		C	PCBs	Soil	Excavation	840	4	3528	131
		D	PCBs	Soil	Excavation	170	1.5	268	10
		E	PCBs	Soil	Excavation	310	2	651	24
		F	PCBs	Soil	Excavation	160	3	504	19
		G	PCBs	Soil	Excavation	110	1.5	173	6
		H	PCBs	Soil	Excavation	1100	0.5	578	21
		I	PCBs	Soil	Excavation	100	6	630	28
		J	PCBs	Soil	Excavation	100	3	315	12
		K	PCBs	Soil	Excavation	100	4	420	16
		L	PCBs	Soil	Excavation	100	2	210	8
		M	PCBs	Soil	Excavation	70	0.5	37	1
		ELUR (1)	PCBs	Soil	Cap/ELUR	602	--	--	--
		ELUR (2)	PCBs	Soil	Cap/ELUR	64	--	--	--
NWB-RTA04	X-202 Inlet House	A	PCBs, Hg	Soil	Excavation	1200	1	1260	47
		B	PCBs	Soil	Excavation	350	3	1103	41
NWB-RTA05, 06, 08 & 09	40,000 gallon Bunker C Fuel AST	A	PCBs	Soil	Excavation	105	4	441	16
		B	PCBs	Soil	Excavation	125	6	938	35
		C	PCBs	Soil	Excavation	110	3	347	13
		D	PCBs	Soil	Excavation	110	4	462	17
		E	PCBs	Soil	Excavation	100	2	210	8
		F	PCBs	Soil	Excavation	175	1	184	7
		G	PCBs	Soil	Excavation	190	4	798	30
		H	PCBs	Soil	Excavation	95	1	100	4
		I	PCBs	Soil	Excavation	80	4	336	12
		J	PCBs	Soil	Excavation	110	1	116	4
		K	PCBs	Soil	Excavation	250	2	525	19
		L	PCBs	Soil	Excavation	170	6	1275	47
		M	PCBs	Soil	Excavation	120	20	3000	111
		N	PCBs	Soil	Excavation	140	24	4200	156
		ELUR (1)	PCBs	Soil	Cap/ELUR	1200	--	--	--
		ELUR (2)	PCBs	Soil	Cap/ELUR	1270	--	--	--
Subtotal	Northwest Study Area								1,978
South Study Area									
SS-RTA14-19	South Storage Areas	A	PCBs & PAHs	Soil	Excavation	100	4	420	16
		B	PCBs	Soil	Excavation	440	2	924	34
		C	PCBs	Soil	Excavation	870	3	2741	102
		D	PCBs & PAHs	Soil	Excavation	630	4	2646	98
		E	PCBs	Soil	Excavation	1200	2	2520	93
		F	PCBs & PAHs	Soil	Excavation	120	10	1500	56
		G	PCBs	Soil	Excavation	150	14	2625	97
		H	PCBs	Soil	Excavation	290	1.5	457	17
		I	PCBs	Soil	Excavation	290	1.5	457	17
		J	PCBs	Soil	Excavation	880	4	3696	137
		K	PCBs	Soil	Excavation	1050	3	3308	123
		L	PCBs	Soil	Excavation	310	2	651	24
		M	PCBs	Soil	Excavation	40	3	126	5
		N	PCBs	Soil	Excavation	100	8	1000	37
		O	PCBs	Soil	Excavation	330	1.5	520	19
		P	PCBs & PAHs	Soil	Excavation	200	4	840	31
		ELUR (1)	PCBs	Soil	Cap/ELUR #1	3620	--	--	--
		ELUR (2)	PCBs	Soil	Cap/ELUR #2	1010	--	--	--
		ELUR (3)	PCBs	Soil	Cap/ELUR #1	410	--	--	--
		ELUR (4)	PCBs	Soil	Cap/ELUR #2	195	--	--	--
SS-RTA20	Fire Hydrant Buildings	A	PCBs	Soil	Excavation	362	1	380	14
		B	PCBs	Soil	Excavation	280	1	294	11
Subtotal	South Study Area								930
Southwest Study Area									
SW-RTA07	North Fuel Dock Pipeline	A	PCBs	Soil	Excavation	4095	1	4300	159
SW-RTA07B	South Fuel Dock Pipeline	A	PCBs	Soil	Excavation	660	1	693	26
		B	PCBs	Soil	Excavation	460	2	966	36
		C	PCBs	Soil	Excavation	3100	1	3255	121
Subtotal	Southwest Study Area								341
West Study Area									
WW-RTA06	Main River Pump House	A	PCBs	Soil	Excavation	350	4	1470	54
		ELUR	PCBs	Soil	Cap/ELUR	350	--	--	--
WW-RTA07	Surficial Impacts - West Study Area	C	PCBs	Soil	Excavation	1200	2	2520	93
Subtotal	West Study Area								148
Total Volume									6,845

Notes:

COC: Contaminant of concern

cft: cubic foot

ft: foot

sqft: square feet

cyd: cubic yard